

Towards FAIR data within the Biodiversity Exploratories

Biodiversity Exploratories public data:

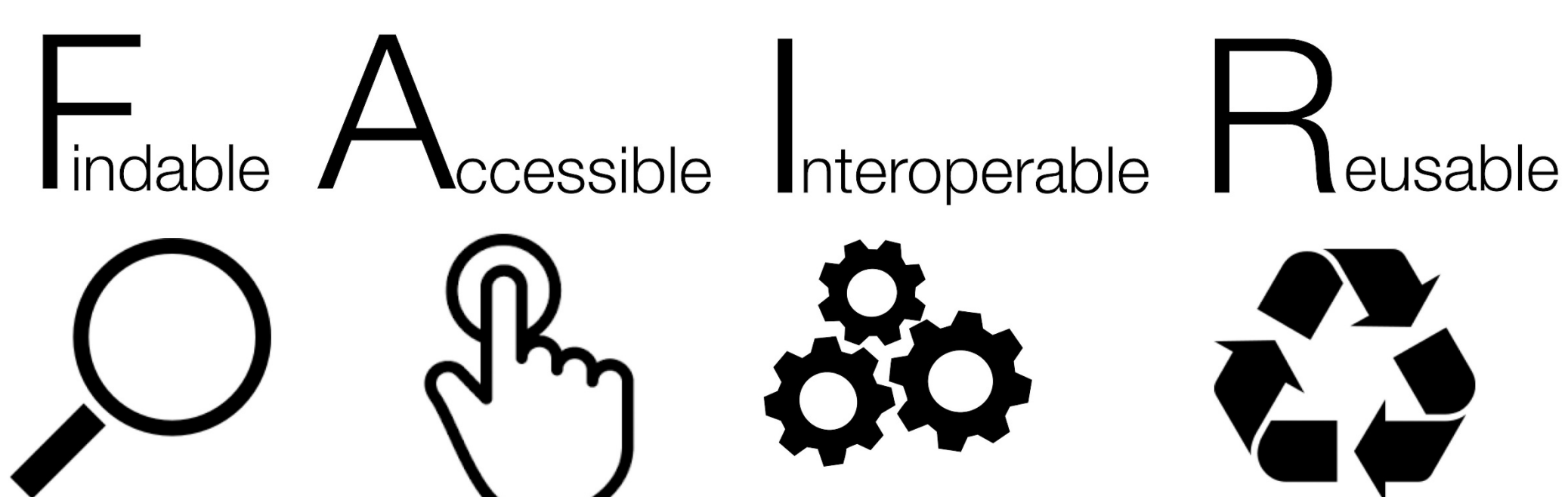


Repository + data self-assessment legend:

- good
- fair
- poor

- F1: Unique URL exists, DOI in preparation
- F2: Project fair metadata
- F3: File bundle, but general data file name
- F4: Own searchable public data, but search engine optimization needed

- A1: Running via https protocol
- A1.1: Running via https protocol
- A1.2: Free data or via scientific cooperation
- A2: Long term storage agreement with university



To be Findable:

- F1. (meta)data are assigned a globally unique and persistent identifier
- F2. data are described with rich metadata (defined by R1 below)
- F3. metadata clearly and explicitly include the identifier of the data it describes
- F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1. (meta)data are retrievable by their identifier using a standardized communications protocol
- A1.1 the protocol is open, free, and universally implementable
- A1.2 the protocol allows for an authentication and authorization procedure, where necessary
- A2. metadata are accessible, even when the data are no longer available

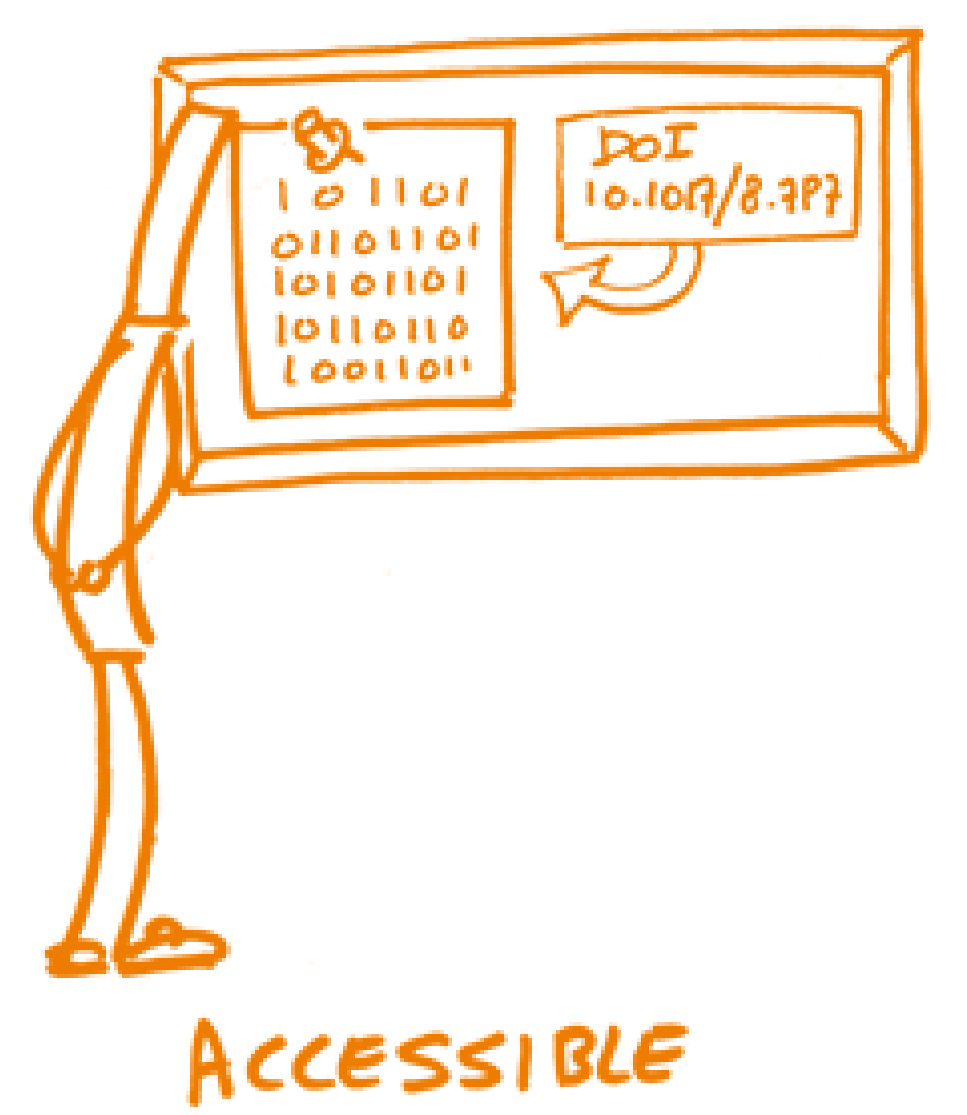
To be Interoperable:

- I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2. (meta)data use vocabularies that follow FAIR principles
- I3. (meta)data include qualified references to other (meta)data

To be Reusable:

- R1. meta(data) are richly described with a plurality of accurate and relevant attributes
- R1.1. (meta)data are released with a clear and accessible data usage license
- R1.2. (meta)data are associated with detailed provenance
- R1.3. (meta)data meet domain-relevant community standards

<http://dx.doi.org/10.1038/sdata.2016.18>



- I1: XML + txt, but semantic base needed
- I2: Semantic base needs to be implemented
- I3: References exists, but semantic info needed

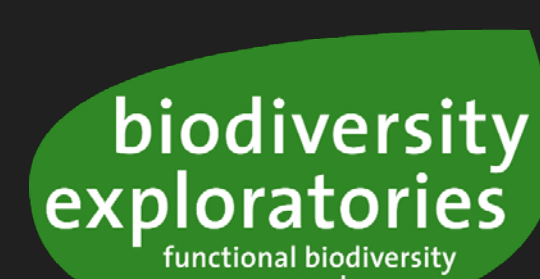
- R1: Context specific metadata
- R1.1: CC-BY-NC
- R1.2: Provenance rich metadata
- R1.3: Follows specs, but review needed

Photo: Martin Fellendorf Comic: CC0 FAIR icon: Sangya Pundir



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